

Just the facts

Ashland Aqualon Functional Ingredients

Ashland Aqualon Functional Ingredients is a world leader in products that modify the physical properties of water-based systems. Most of Ashland Aqualon Functional Ingredients' products are derived from renewable natural raw materials.

Markets

Key customers of Ashland Aqualon Functional Ingredients' products include manufacturers of interior and exterior water-based paints; producers of construction materials; oil field service companies for oil and gas exploration; paper mills; pharmaceutical companies; and makers of oral hygiene products, chewing gum base, citrus soft drinks and sport beverages, cosmetics, food, personal care products, printing inks and specialty adhesives for product assembly, medical tapes, and food packaging.

Technologies

Ashland Aqualon Functional Ingredients' products are used in applications where the following functional properties are desired:

- Thickening and Rheology Control
- Water Retention
- Adhesive Strength
- Binding Power
- Film Formation
- Protective Colloid, Suspending and Emulsifying Action
- Foam Control
- pH Stability

These properties enable Ashland Aqualon Functional Ingredients products to perform in a wide variety of industries.

Ashland Aqualon Functional Ingredients is also the world's only producer of refined wood rosin and natural wood terpenes from pine stumpwood extracts. Other major raw materials include gum rosin, pinene monomers, and citrus *d*-limonene. These rosin and terpene building blocks undergo chemical processing such as esterification, hydrogenation, polymerization, and purification, to create dozens of useful products delivering specific performance attributes in demanding applications.

Major Products

Water-Soluble Polymers

- Admiral® fluidized polymer suspension
- AeroWhip® foam stabilizers
- Ambergum® cellulose ether
- AquaCat® clear cationic solution
- Aqualon® cellulose gum (CMC)
- Aqualon® ethylcellulose
- Aqualon® POLYMER sc50
- AquaFLO® polyanionic cellulose
- Aquaflow® rheology modifier
- AquaPAC® polyanionic cellulose
- Aquasorb® cellulose gum
- AquaVIS® water soluble polymer
- Aquacel® purified
- Arizza® modified cellulose polymer
- Blanose® sodium carboxymethylcellulose
- Benecel® hydroxypropylmethyl cellulose and derivatives
- Blanose® sodium carboxymethylcellulose
- Combizell® methylcellulose derivatives

- Culminal® methylcellulose and derivatives
- EcoDura™ Plonor fluidized polymer suspensions
- Galactasol® guar and guar derivatives
- imPress® fluidized polymer suspension
- Incisor® fluidized polymer suspension
- Klucel® hydroxypropylcellulose
- Klucel Nutra® modified cellulose
- Liberty® fluidized polymer suspension
- N-Hance® guar derivatives
- Natrosol® hydroxyethylcellulose
- Natrosol® Liquid fluidized suspension
- Natrosol® B hydroxyethylcellulose
- Natrosol FPS® water-soluble polymer suspension
- Natrosol® Plus modified hydroxyethylcellulose
- Nexton® water-soluble polymers
- PolySurf® cetyl hydroxyethylcellulose
- PrimaFlo® water-soluble polymer suspension
- Supercol® guar gum
- XxtraDura™ high-temperature, high-pressure cement additives

Rosin and Terpene Derivatives

- Abalyn® liquid resins*
- Cellolyn® synthetic resins*
- Foral® hydrogenated rosin and esters*
- Hercoflex® synthetic resins
- Hercolyn® D hydrogenated rosin ester
- Hercules® ester gum 8BG
- Lewisol® synthetic resins*
- Melhi® resins
- Pentalyne® synthetic resins*
- Pexalyn® synthetic resins
- Piccolyte® polyterpene resins
- Staybelite® hydrogenated rosin and esters*
- Vinsol® resins



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Specialty Products

- Advantage® defoamers
- Amylotex* and Aqualon® starch ethers
- Aquapas® redispersible powders
- Aquarius® coating systems
- Dextrol® phosphate ester surfactant
- Drew™ and Drewplus® foam control agents
- Drewfax® surfactants
- Drewgard® corrosion inhibitors
- Drewslip™ slip and surface modifiers
- Logos™ defoamers
- pHLEX™ neutralizing agents
- Silipon® air-entraining agents
- Silipur® functional additives
- Strodex® phosphate ester surfactant
- Tacabind® pellet binder
- Vinsol® air-entraining agents

Facilities

To maintain its leadership position, Ashland Aqualon Functional Ingredients focuses on targeted, market-oriented technology programs and a high level of technical service to customers. Seven global Applications and Development Laboratories (Industry Laboratories) are positioned strategically to provide technical support for all Ashland Aqualon Functional Ingredients' products.

Laboratories

- Brunswick, Georgia, U.S.A.
- Düsseldorf, Germany
- Jiangmen, China
- Mexico City, Mexico
- Nanjing, China (Under construction)
- Singapore, Republic of Singapore
- Wilmington, Delaware, U.S.A.
- Zwijndrecht, the Netherlands

Production Facilities

- Alizay, France
- Brunswick, Georgia, U.S.A.
- Dalton, Georgia, U.S.A.
- Doel, Belgium
- Hopewell, Virginia, U.S.A.
- Kenedy, Texas, U.S.A.
- Jiangmen, China
- Luzhou, China*
- Nanjing, China (Under construction.)
- Parlin, New Jersey, U.S.A.
- Suzhou, China*
- Wilmington, Delaware, U.S.A.
- Zwijndrecht, the Netherlands

* Joint ventures.

Sales Offices

- Bangkok, Thailand
- Bologna, Italy
- Brunswick, Georgia, U.S.A.
- Dubai, U.A.E.
- Dusseldorf, Germany
- Kenedy, Texas, U.S.A.
- Mexico City, Mexico
- Moscow, Russia
- Mumbai, India
- Prague, Czech Republic
- Rijswijk, the Netherlands
- Shanghai, China
- Pantech, Singapore
- Tarragona, Spain
- Warsaw, Poland
- Wilmington, Delaware, U.S.A.

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